

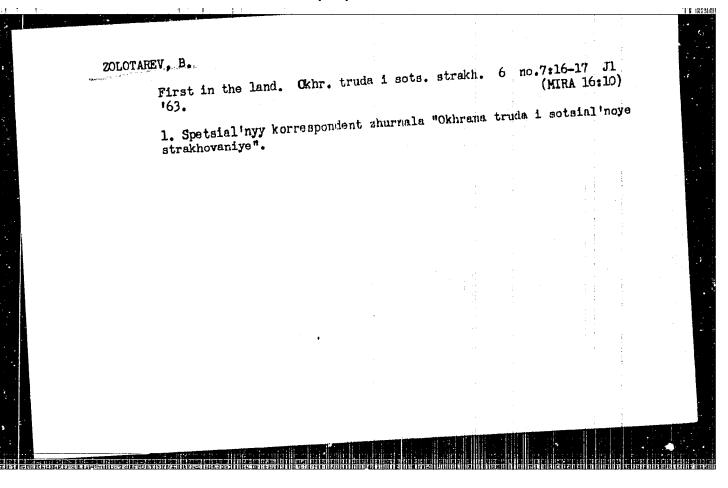
LINENBURG, G.; ZOLOTAREV, B. Humaneness. Okhr.truda i sots.strakh. 4 no.11:26-28 N '61. (MIRA 14:12) 1. Spetsial nyye korrespondenty zhurnala "Okhrana truda i sotsial noye strakhovaniye". (Industrial accidents)

POBEREZHNYY, V.; APOLLONOV, S.; GURINENKO, M.; ZGLOTAREV, B.

Welcome to the paper service huts. Okhr. truda 1 sots.

strakh. 6 no.6:26-27 Je '63.

1. Vneshtatnyye tekhnicheskiye in pektora Moskovskogo
gorodskogo soveta professional'nykh soyusov (for Poberezhnyy,
gorodskogo soveta professional'nykh soyusov (for Poberezhnyy,
apollonov, Gurinenko). 2. Korrespondent zhurnala "Okhrana
Apollonov, Gurinenko, Strakhovaniye" (for Zolotarev).

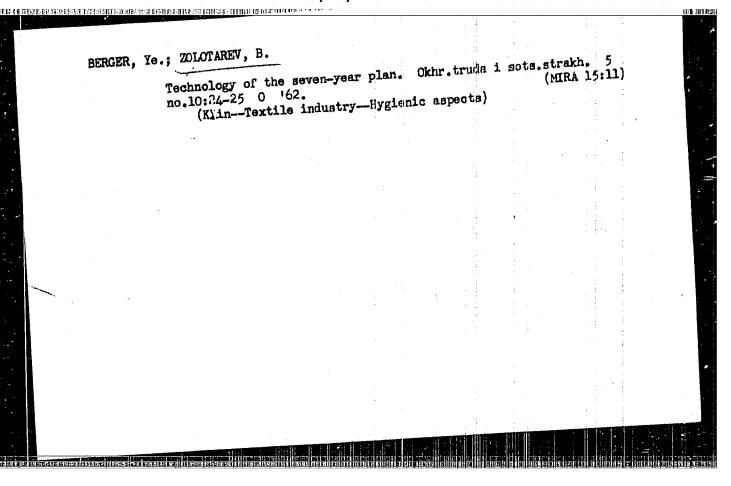


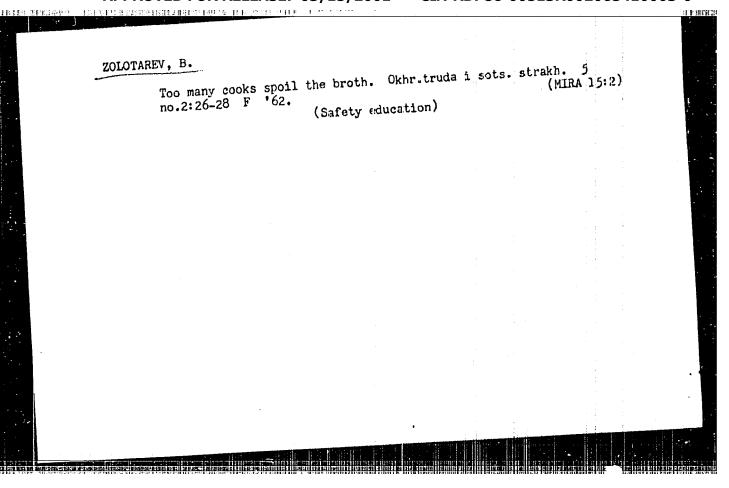
BAZHIN, A.; NORKIN, I., zasypshchik domennoy pechi; GULIN, G.; MYAKININ, M.; ZOLOTAREV, B.

Equal possibilities but different results. Okhr. truda i (MIRA 15:7) sots. strakh. 5 no.7:32-33 J1 162.

1. Predsedatel tsekhkoma domennogo tsekha motallurgicheskogo kombinata imeni Serova (for Bazhin). 2. Vneshtatnyy tekhnicheskiy inspektor Sverdlovskogo oblastnogo soveta professional nykh Boyuzov (for Culin). 3. Predsedatel' komiseti okhrany truda zavodskogo komiteta Bogoslovskogo alyuminiyevogo zavoda (for Myakinin). 4. Spetsial'nyy korrespondent zhurnala "Okhrana truda i sotsial'noye strakhovaniye" (for Zolokarev). (Sverdlovsk Province-Work clothes)

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YURKEKOVA, M.; KOBYLYANSKIY, D., kand. tekhn. nauk; ZOLOTAREV, B.

With their brakes down. Okhr. truda i sots. strukhr. 10,4127-29

Ap '63.

1. Vsesoyusuyy nauchno-issledovatsl'skiy institut.shveynoy
promyehlennosti (for Kurenkova). 2. Chlen obshchastvannogo
promyehlennosti "Okhrana truda i sotsial'noye strakhovaniye"
soveta redaktsii "Okhrana truda i sotsial'noye strakhovaniye"
(for Kobylyanskiy). 3. Korrespondent shurnala "Okhrana truda i

s/135/59/000/012/004/006 A115/A029

AUTHORS:

Maslov, G.A., and Zolotarev, B.B., Engineers

TITLE:

Use of Higher Pressure at Electrodes for Spot Welding of

Low Alloyed Steels

PERIODICAL: Svarochnoye proizvodstvo, 1959, No. 12, pp. 16 - 18

Irrespective of the current intensity and the duration of impulse, a pressure of 270 - 320 kg per 1 mm thickness is not sufficient to avoid defects such as pores, blisters and cracks in the core and in the TEXT: neighborhood of the seam. Even application of two-impulse operation does neighborhood of the seam. Even application of anothing possibility of betnot produce fine-grained weldings. To investigate the possibility of betnot produce fine-grained weldings. To investigate the possibility of better weldings, the low alloyed steels 30 X CGA (30KhGSA) and 12 C2A (1202A) have been tested. The pressure at the electrodes was raised. The X-ray diffraction (Figure 1) shows improvement of the welds by gradually increased pressure from 240 kg to 1,440 kg at 1 mm thickness. The optimum values of pressure can be easily found for each thickness of various materials. The small projections on the spherical surface of the electrode, appearing during the process of welding, favorably affect the solidity of the welded spot; therefore, it is advisable to do 20-25 trial spots before proper Card 1/2

and the figure of the section of the

S/135/59/000/012/004/006 A115/A029

Use of Higher Pressure at Electrodes for Spot Welding of Low Alloyed Steels

welding. Higher pressures applied to spot welding of low-alloyed steels improve the quality of weldings through elimination of inner defects in the core, raising the solidity and stability, favoring crystallization of the core and preserving the resistance of the electrodes. There are 4

ASSOCIATION: NIAT (Scientific Research Institute of Technology and Production Management)

Card 2/2

ZOLOTAREV, B.B

s/121/61/000/008/006/006 DO41/D113

AUTHOR:

None given

TITLE:

Dissertations

PERIODICAL: Stanki i instrument, no. 8, 41-42

TEXT: V.P. Grechin presented the dissertation "Heat Resistance and Other Wear Resistance Factors of Cast Iron and Alloys During Sliding Friction" at the Institut mekhaniki Akademii nauk USSR (Institute of Mechanics of the Academy of Sciences Ukrainskaya SSR) in order to obtain a doctor's degree. The following dissertation were presented for a candidate's degree: "Investigation of Small-Module Gear-Shapers" by Yu.R. Vitenberg at the Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics); "The Effect of the Structural and Technological Factors of Spot-Welded and Seam-Welded Joints on the Distribution of Stress Caused by Load and on the Fatigue Strength" by B.B. Zolotarev at the TsNII tekhnologii i mashinostroyeniya (TsNII of Technology and Machine Building); "Investigation of Screw-Nut Pairs During Rolling and Sliding" by Kumar Basu Sushil at the Moskovskiy stankoinstrumental'nyy institut im. I.V. Stalina (Moscow Institute of Machine Tools and Instruments im. I.V. Card 1/2

S/121/61/000/008/006/006 D041/D113

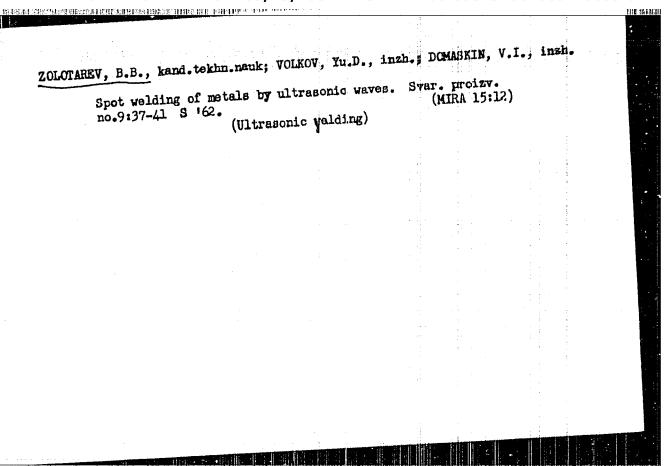
Dissertations

Stalin); "Investigation of the Surface Accuracy and Smoothness Obtained by Machining Hard and Brittle Materials Using the Ultra-Sound Vibrations Method" by A.Ya. Vladimirov at the Leningradskiy institut tochnoy mekhaniki i optiki (Leningrad Institute of Precision Mechanics and Optics); "Effect of Some Technological Factors on the Surface Quality Obtained by Plane Grinding by Means of the Disc Peripher;" by B.B. Troitskiy at the Moskovskiy stanko-instrumentalinyy institut imeni I.V. Stalina (Moscow Testitute of Machine Tools and Instruments im. I.V. Stalin); "Investigation of the Automatic Synchronization of Gear Changing" by I.M. Knovanov at the Moskovskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni Vyssheye tekhnicheskoy uchilishche im. N.E. Baumana (Moscow "Order of Lenin and Order of the Red Banner of Labor" Higher Technical School im. N.E. Bauman); "Investigation of a Grinding Process with an Oscillating Motion" by Tsho Shih-Shen at the Moskovskiy avtomechanicheskiy institut (Moscow Automechanical Institute). Abstractor's note: complete translation.

Card 2/2

ZOLOTAREV, B. B., CAND TECH SCI, EFFECT OF DESIGN AND TECHNOLOGICAL FACTORS OF SPOT AND ROLLER UNIONS OF THE DISTRIBUTION OF STRESSES UNDER LOAD AND FATIGUE STRENGTH, MOSCOW, 1961. (STATE COM COUNCIL OF MINISTERS USBR FOR AUTO-MATION AND MACHINE BUILDING. CENTRAL SCI RES INST OF TECHNOLOGICAL PUBLICAL PUBLICATION. (KL., 2-61, 208).

-132-



ENT(m)/ENP(H)/ENP(Y)/T/EMP(t)/ENP(h)/ENP(b)/WHA(c) UR/0135/65/000/000/0010/0013 ACCESSION NR: AP5022347 621.791.011:621.771 AUTHOR: Zolotarev, B. B. (Candidate of technical sciences); Spalevich, V. (Candidate of technical sciences) TITLS: Calculation of residual atreases due to peaning im the apor-weld sone SOURCE: Svarochnoye proizvodatvo, no. 9, 1965, 10-13 TOPIC TAGS: residual stress, spot welding, fetigue strength, psening, walding electrode, plastic deformation ABSTRACT: Peening during the welding cycle makes it posmible to change the magnitude and polarity of residual stresses and, without any additional technological operations, to sharply increase the fatigue strength of joints while at the same time reducing their Jeformation. Since the exact determination of the residual stresses caused by peening in the spot-weld some is an extremely complex problem, the author introduces the following simplifying assumptions: 1. Compactly compressed sheets in the welding some are regarded as a mingle sheet;

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2. The material is isotropic (rejardless of the presence of cast and rolled squas

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ACCESSION NR: AP5022347

structural transformations, etc.) and does not harden begond the yield pilit; 3. Residual stresses due to the combination of welding with populing are regarded as the sum of stresses due to beating and peering; 4. This peering stress is applied and withdrawn instantaneously, and the Lempersonic is svenaged over the time of the increase in and withdrawal of this stress; 5. The electrodes are absolutely rigid dies with a first working surface over which the load distribution is uniform. On the basis of these assumptions, the problem is formulated as follows: pressure P is applied by rigid cylindrical dies of radius r to a plate of large dimensions (as compared with the weld-spot nugget). Find the residual stresses induced by this pressure under the conditions of soot welding. It is she on that the direct solution of this problem is divided into three stages: a) determonarion of greenes in the presence of sugartic deformations of the cylinder. b) determination of stresses in the presence of plastic deformation of the cylinder; and c) determination of residual stresses. The spread of tesidual stressee is limited by the oceas of plaatic deformation in the near-werd rone. Crig. art. bas: / figures, 18 formilas.

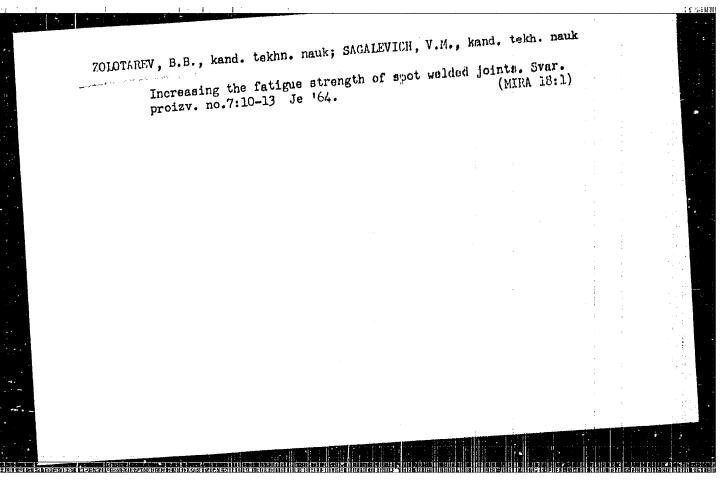
ASSOCIATION: none

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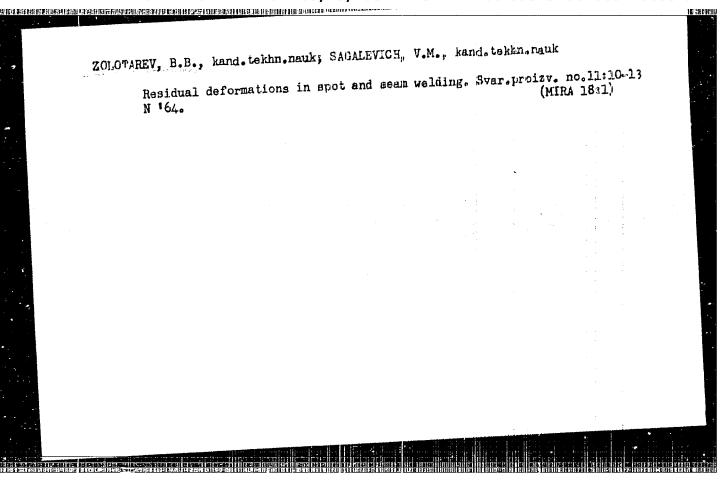
J D/ EM EMT(m)/EMP(T)/EMP(t)/T/EMP(k)/EMP(b) L 14500-66 SOURCE CODE: UR/0413/66/000/002/0057/0057 AP6006333 ACC NR: INVENTOR: Zolotarev, B. B.; Zhukov, M. B.; Denisov, B. S. ORG: none TITLE: A method of arc welding. (Class 21, No. 177982 Izobreteniya, promyahlennyye obraztsy, tovarnyye znaki, no. 2, 1965, 57 SOURCE: TOPIC TAGS: welding, are welding, welding deformation, musidual deformation, deformation control ABSTRACT: This Author Certificate introduces a method of are welding with a filler material. In order to control the magnitude and sign of residual deformations, a filler is introduced whose dilatometric properites, including those of zero magnitude, ensure the desired deformation. SUBM DATE: 16Jun64/ ATD PRESS: 4/97 Card 1/1 unc: 621.791.753/042

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CIA-RDP86-00513R002065410003-0

KOCHETKOV, N.K.; VULIFSON, N.S.; CHIZHOV, O.S.; ZOLOTABEW, B.M.

Mass spectrometric study of carbohydrates. Nethyl ethers and acetates of glucosides. Dokl. AN SSSR 151 no.2:336-339 J1 (MIRA 16:7) 163.

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlankorrespondent AN SSSR (for Kochetkov).

(Glycosides) (Mass spectrometry)

KOCHETKOV, N. K.; VUL. FSON, N. S.; CHIZHOV, D. S.; ZOLOTAREV, B. H.

Mass spectrometry of carbohydrates. Methyl ethers of monosaccharides. Dokl. AN SSSR 147 no.6:1369-1372 D \*62. (MIRA 16:1)

1. Institut khimii prirodnykh scyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Korshak).

(Monosacchar des Spectra)

才持多数利用的的特殊 新用。2014年的特殊的一些部分的特别是对此有些人的特殊的。 s/0135/64/000/007/0010/0013 ACCESSION NR: AP4042219 AUTHOR: Zolotarav, B. B. (Candidate of technical sciences); Sagalevich, V. M. (Candidate of technical sciences) TITLE: Increasing the fatigue strength of spot-welded joints SOURCE: Svarochnoye proizvodstvo, no. 7, 1964, 10-13 TOPIC TAGS: spot weld, fatigue strength, spot weld strengthening, spot weld forging, spot welding parameter, residual stress removal ABSTRACT: The effect of individual spot welding parameters on the distribution, magnitude, and sign of the residual strasses around the spot weld, which adversely affect the fatigue strength of spot welds, has been investigated. The experiments on spot welding of austenitic stainless lkhl8N9T (AISI321) and martensitic BNS2 steels showed that residual stresses decrease with decreasing current pulse duration, e.g., by about 20-30% when the pulse duration decreases from 0.32 to 0.20 sec, while their sign remains unchanged. The current amplitude and welding pressure have an insignificant effect on the The state of the s

# ACCESSION NR: AP4042219

magnitude of residual stresses, a.g., a 13-15% decrease in residual stresses with a welding-pressure increase of 700 to 1000 kg. Further experiments showed that forging sharply decreases and also changes the sign of residual stresses. Under all kinds of load, the forged spot-welded joints had a fatigue strength 35-120% higher than that of the unforged. Analogous increase was observed in the fatigue strength of spot-welded joints on aluminum alloys, e.g., a singlespot joint of D16AT (AISI2024) alloy welded with forging had, under sheer stress, a fatigue strength 95% higher than that of the unforged. For maximum effect, the forging should be applied no earlier, and no later than 0.01 sec before or after the current pulse is terminated. Forging also produces strain hardening of the metal at the dangerous spot of the spot-welded joint and eliminates the abrupt transition from the cast structure of the nugget to the structure of the weld-adjacent zone, thus promoting an increase in the fatigue strength of the weld. The strengthening effect of forging the spot welds is also maintained at elevated temperatures. Orig. art. has: 8 figures.

ASSOCIATION: none

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ACCESSION NR: AP4042219		• • • • • • • • • • • • • • • • • • • •			
7	MITTED: 00 CODE: MM, IE	ATD PRESS: 3	ENCL:	00	

307/135-59-8-7/24

18(5,7) AUTHORS: Maslov, G.A., and Zolotarev, B.B., Engineers

TITLE:

Strength of Electro-Heat Treated Spot Joint From

Steels of Types 30 KnGSA, 12G2A and E1659

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 8, pp 21-26 (USSR)

ABSTRACT:

In spot welding of most structural steels which contain more than 0.2% of carbon it is possible, that highly strained structures with uneven weight are formed if the cooling is too rapid. This causes brittleness of the joints, which reduces their durability and plasticity. The steels are hardened; they have a high stability and are heat-treated. The hardness of the zone of hear treatment, hardened in the spot welding, adds to the formation of strong inner strains. This zone is surrounding the center of the spot and forms an area of hard cast which disturbes the volume changes during the cooling. This may cause cracks (most frequently if the steel is stronger than 2 mm), blisters, and pores. If the cooling of the weld spot is rapid the spatial changes caused by the transformation of

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SOY/135-59-8-7/24

Strength of Electro-Heat Treated Spot Joints From Steels of Types 30 KhGSA, 12G2A and EI659

the martensite also lead to strains within the welded joints, which may reduce the durability of the welding. The spot joint is then not reliable because overstrain or accidental shocks may cause a fracture. It is known that the mechanical qualities of the joints in spot welding of chilled steels may be improved by a heat treatment immediately between the electrodes of the spot welder. The article contains the results of an investigation of the working data and efficiency of the electro-heat treatment of the weldings of the three chilled steels. The investigation is based on studies of the statical and cyclical durability of the joints. The mechanical tests were conducted by the technician M.V. Odinokova and the metallographic tests by engineer P.G. Galushking In the following part the test data and test conditions for the three types of steel are given. The statical durability of the spots during the cutting depends little on the character of the electro-heat treatment, a fact

Card 2/6

Strength of Electro-Heat Treated Spot Joints From Steels of Types 30 KhGSA, 12G2A and EI659

which is confirmed by the experiment. The characteristics of the statical stability of the spot joints made of the three steel sorts with differing thickness are given in table 2-5. Experiments were carried out to determine the interrelation between the stability of the joints and the thermal treatment of the peri-phery of the spot and its seam, because these zones of the joint carry the greatest strain and are therefore especially important for the durability of the whole joint. The values which are given in table 6 prove that the selected data of welding with electroheat treatment assure a high stability of the joints in statical tests. The results of the cyclical tests permit the following conclusions: a joint of hardened steel has a higher cyclical stability than a joint of non-hardened steel. The relation between the fatigue limits of non-hardened steel and its joint is 2.1. For hardened steel this relation is equal to 2.4. The relation between the destructive statical

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30 KhGSA, 12G2A and EI659

BOV/135-59-8-7/24 Strength of Electro-Heat Treated Spot Joints From Steels of Types

> strain and the fatigue limit is 2.2 for joints of nonhardened steel and 2.9 for the same joints of harden-ed steel. The relative weakness of joints of hardened steel may be explained by the following facts: the durability is determined not only by the strength of the cast core, but also by the structure of the cores which are formed around the spot during the welding. Since the plasticity of the hardened type is lower than that of a non-hardened one, the irregularity of its mechanical qualities cause a heavy concentration of the strains, which in turn leads to a deterioraof the statical and cyclical durability. It tion of the statical and cyclical durability. It was found by experiments, that an electro-heat treatment reduces the hardness in the periphery of the core and in the seam zone. On the other hand a reduction in the hardness causes a relatively small increase in the plasticity in these zones. At the same time the heat treatment increases the durability of the spot, especially in regard to a tearing-off. On

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10 C. C.

SOV/135-59-8-7/24

Strength of Electro-Heat Treated Spot Joints From Steels of Types 30 KhGSA, 12G2A and EI 659

this basis the authors assert that the electro-heat treatment reduces not only the hardness but at the same time to a certain extent the residual stresses. All this in the final analysis helps to improve the stability of the joint. The authors come to the conclusions: spot welding with subsequent heat treatment in the welder assures a sufficient mechanical stability of the welded joints of the three mentioned types of steel during cutting and tearing under statical and cyclical strain. The electro-heat treat-ment in the welding machine makes it unnecessary to give the spot joint a subsequent heat treatment in a furnace. As it seems the heat treatment not only reduces the brittleness in the spot center and the zone influenced by the heat, but also considerably lowers the residual stresses, since the large in-crease in the resistance to tearing is not matched by the relatively small decrease in hardness (up to 15%).

Card 5/6

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Strength of Electro-Heat Treated Spot Joints From Steels of Types 30 KhGSA, 12G2A and EI 659

There are 3 photographs, 2 diagrams, 5 graphs and 3 Soviet references.

ASSOCIATION: NIAT

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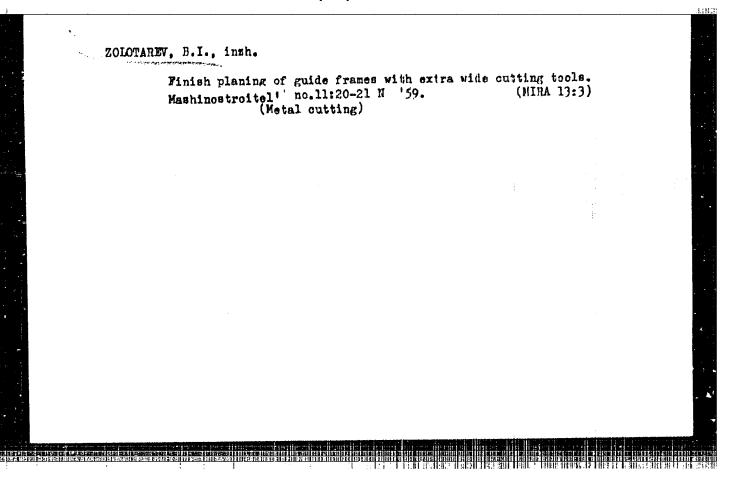
ZOLOTAREV, B.B., kard. tekhn. nauk; SAGALEVICH, V.M., kand. tekhn. nauk

Calculating residual streamen in a weld zone caused by peening.

Svar. proizv. no.9:10-13 S '65. (MIRA 18:9)

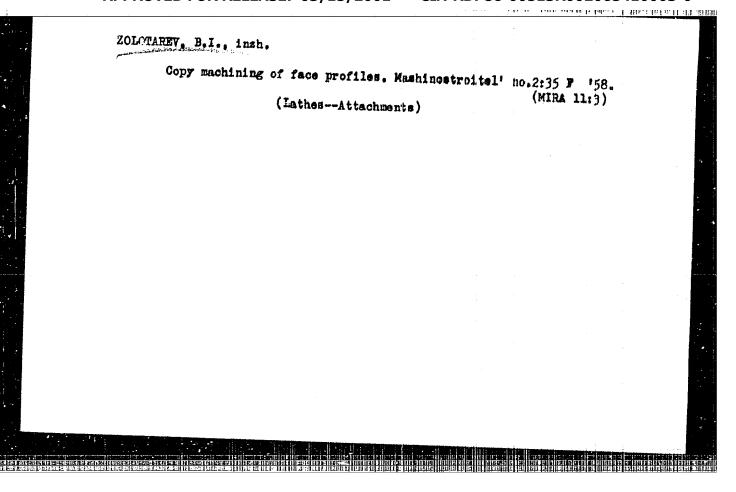
SACALEVICH, V-M-; ZOLOTAREV. D.B.

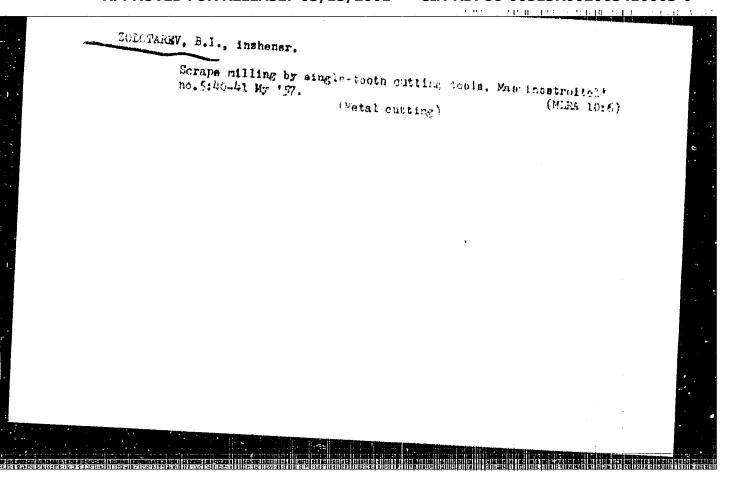
Increasing the fatigue strength of spot wilded joints in aluminum and titanium alloys. Tilvet. met. [88 no.11:106-111] II 165. (HIBA 18:11)



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## CIA-RDP86-00513R002065410003-0





### "APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065410003-0

AUTHOR:

Zolotarev , B.I., Engineer

117-2-19/29

THE REPORT OF THE PROPERTY OF

TITLE:

Machining Face Profiles with a Profiling Device (Kopirnaya obrabotka tortsovykh profiley)

PERIODICAL: Mashinostroitel, 1958, # 2, p 35 (USSR)

ABSTRACT:

The article describes a special device for lathe machining of the face of a two-side screw jaw (part of a cable-crane trolley brake), devised by a team from the All-Union Projects-Technological Institute of Heavy Machinebuilding (Vsesoyuznyy proyektno-tekhnologicheskiy institut tyazhelogo mashinostroyeniya) at the Perovo Machinebuilding Plant (Perovskiy mashinostroitel'nyy zavod). The device, consisting of three separate parts attached in different places on the lathe, works with a profiling device fixed on a mandrel, positioned in the lathe centers. A spring pusher (one of the three parts) pushes the lathe carriage and presses another part of the device against the profiling part, which makes the cutter produce the desired profile. The 90 -angle cutter reduces to a minimum the force which the spring pusher has to overcome. There are 2 drawings.

AVAILABLE: Card 1/1

Library of Congress

KOZLOV, L.V.; GINCDMAN, L.M.; ZOLOTAREV, H.P.; CREKHOVICH, V.N. Study of the catalytic activity of pepsin with the aid of 018. Dokl. AN SSSR 146 no.4:945-946 0 162. (MIRA 15:11)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
2. Deystvitel'nyy chlen AMN SSSR (for Orekhovich).
(Pepsin) (Catalysis)

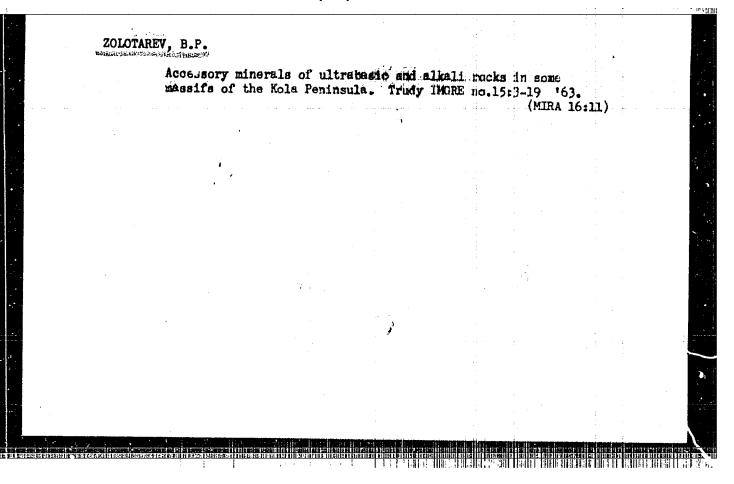
Mass spectrometric study of carbohydrates. Report No.3: Machanism of decomposition of 2,3,4,6-tetramethyl-A-mathyl-D-glycoside. Tav. AN SSSR. Ser. khim. no.5:776-785 '65. (MIRA 18:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KOCHETKON, N.K.; CHIZHON, C.S., Z OLOTAREV, B.M.

Mass spectrometric study of carbohydrates. Methyl others of some methyldescyheresides. Dokl. AN SSSR 165 mg.30569-572 N '65. (MIRA 18:11)

1. Institut khimii prirodnykh soyedineni; AN SSR. 2. Chlen-korrespondent AN SSSR (for Kochekkov).



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Problems in Himmalogy (Cent.)	phy/5750		
or with which they are associated, are disc investigation of the possibilities of influ- celenium, tellurium, and hafnium. No perce is accompanied by references.	strial extraction and utili	izetion of	
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	Semenov, Ye. I. Gelzirconium in Alkalino Feguratita	• .	•	85	
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LYAKHOVICH, V.V.; ZOLOTAREV, B.P.; RODIOHOV, D.A.; SOHOLEV, S.F.

Accessory minerals in granitoids of the Gornyy Altai. Trudy
Inst.min., geokhim.i kristalokhim.red.elem. no.2:144-163 \*59.

(Altai Mountains--Trace elements)

(Altai Mountains--Trace elements)

ICLOTEREV, B.V., inch. Installation of hollow and aluminua business by means of e.a. alumine (HIRA 1":1".) welding. Energ. stroi. 20.6:105-126 150. 1. Spetsuchestok TSontrolinov elektrichoskov samoletnov stentsii.
(Bus confuctors (Electricity))

ZOLOTAREVE, KM.
USSR / General and Special Zoology. Insects.

Abs Jour: Ref Zhur-Biol., No 3, 1958, 11699

Author : Zolotarev E. Kh.

Inst : Not given

Title : New Highly Toxic Insect Repellents.

Orig Pub: Zashchita rast. ot vredit. i boleznei, 1956, No 5,

Abstract: No abstract.

Card 1/1

USSR/Zooparasitology - Acarina and insect-vectors of disease pathogens

Abs Jour: Ref Zhur - Biol., No 7, 1958, 29168

Abstract: --82-94%. Subsequent tests of preparations MGU-22, MGU-33 and MGU-132 showed that under the influence of lethal dosage the flies die off slowly-- after a day or more. Vomiting occurs in the polsoned flies, then subsides, and the insects die without any visible signs of poisoning. Males and old females with developed ovaries die more quickly than young flies. The toxicity of KGU-22 preparation applied to glass surfaces in the form of an acetone solution decreased at temperatures of 40, 30 and 20° in 8, 11, and 14 days, respectively. At relative

Card 2/3

USSR/Zooperasitology - Acarina and insect-vectors of disease pathogens

Abs Jour: Ref Zhur - Biol., No 7, 1958, 25168

在1998年中的19

Abstract: humidities of 100, 76 and 10% the toxicity diminished respectively by the 8, 11 and 14 day. When oil was added to MGU-22 and MGU-32 their toxicity and preservation on treated surfaces considerably increased, even under conditions of increased humidity. It was established that it is preferable to use solutions of the indicated substances in aqueous-oily emulsions and not in acetone or alcohol.

Card 3/3

24

USSR / Zooparasitology - Acarina and insect-vectors G of disease pathogens

Abs Jour: Ref Zhur - Biol., No 7, 1958, 29171

Abstract: the preparation is applied in the form of an acetone or oil solution to the dorsal surface of the chest section of flies, DL50 was 1/10 or 1/20, respectively that of DDT. The addition of oil markedly increased the toxicity of the preparation. After contact with glass treated by 1 g/m² MGU-22, the mortality of DDT-resistant and sensitive flies was higher than after contact with glass treated by DDT. When the dose of the preparation was diminished from 1 to 0.5-0.25 g/m², the percentage of fly mortality considerably diminished on contact for a short period. DDT-resistant flies were more resistant to MGU-22 than sensitive flies.

Card 2/2

25

DOLZHBNKOV, Andrey Timofeyevich, kandidat tekhnicheskikh nauk; ZOLOTARNY,

G.A., kandidat tekhnicheskikh nauk; LEVITSKIY, I.S., kandidat
tekhnicheskikh nauk; SAN'KOV, V.M., kandidat tukhnicheskikh nauk;
PESTRYAKOVA, S.V., redaktor; FEDOTOVA, A.F., tukhnicheskiy redaktor

[Repair work] Remontnoe delo. Moskva, Gos. izd. vo selkhoz. lit-ry,
1956. 559 p.

(Machinery--Maintenance and repairs)

HOLOTARY, Georgiv Andreysvich; EHDANOW, V.V., redaktor; ECVOSPASSKIY, V.V.;
redaktor; Kimsanova, N.A., teknnichqaktor.

[Safet, engineering in the werkshops of machine-tracter stations]
Teknaika bezopasnosti v rementayah masterskikh MTS. Meskva, Izd-vo
VTeSPS Prefizdat, 1955. 73 p.

(MERA 9:5)

(Machine-tracter stations--Safety measures)

# Effect of preliminary additive coloration and decoloration on the formation of the spectrum of local trapping levels in the roent-genization of the crystal phospher KCl-Ag with varying activator content. Nauch. zap. Od. ped. inst. 25 no.2:93-95 '61. (MIRA 18:2)

\$/058/61/000/007/030/086 A001/A101

AUTHOR:

Zolotarev, G.K.

TITLE:

The effect of thermal treatment conditions and X-ray irradiation on the spectrum of local capture levels in KCl-Au crystal phosphor

PERIODICAL:

Referativnyy zhurnal. Fizika, no. 7, 1961, 154, abstract 7V417 ("Nauchn. zap. kafedr matem., fiz. i yestestvozn. Cdessk. gos. ped. in-t", 1959, v. 24, no. 1, 58 - 62)

TEXT: The curves of thermal luminescence of KCl-Au crystals after irradiation by X-rays at room temperature were investigated. The form of the curves depends on the method of thermal treatment (annealing, hardening), and, in some cases, on the thickness of the Al-filter for X-rays. There are 16 references.

[Abstracter's note: Complete translation]

Card 1/1

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AUTHOR: Zolotarev, G. K. W C.5	
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irradiation, absorption spectrum, recombination lumined cence, photoemission, x  ABSTRACT: This is a continued and relaxation characteristic	
ABSTRACT: This is a continuation of earlier work (Trudy IIV All MESER No. 26, 121, 125 and earlier papers) devoted to the luminescence of EMI-Ac. What he was the content of the present article to the luminescence of EMI-Ac. What he was the content of the present article to the luminescence of EMI-Ac. What he was the content of the present article to the luminescence of EMI-Ac. What he was the content of the present article to the luminescence of EMI-Ac. What he was the content of the present article to the luminescence of EMI-Ac. What he was the content of the present article to the luminescence of EMI-Ac. What he was the content of the present article to the luminescence of EMI-Ac. What he was the content of the present article to the luminescence of EMI-Ac. What he was the content of the present article to the luminescence of EMI-Ac. What he was the content of the present article to the luminescence of EMI-Ac. What he was the content of the present article to the luminescence of EMI-Ac. What he was the content of the luminescence of EMI-Ac. What he was the content of the luminescence of EMI-Ac. What he was the content of the luminescence of EMI-Ac. What he was the content of the luminescence of EMI-Ac. What he was the content of the luminescence of EMI-Ac. What he was the content of the luminescence of EMI-Ac. What he was the content of the luminescence of EMI-Ac. What he was the content of the luminescence of EMI-Ac. What he was the content of the luminescence of EMI-Ac. What he was the luminescence of EMI-Ac. What he was the content of the luminescence of EMI-Ac. What he was the luminescence of EMI-Ac.	
1964 and earlier papers) devoted to the luminescence of KMI-AG, Maci-Ag and KBI-AG whosphore, a tree of author describes results of experience of KMI-AG.	1 4
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L 01461-66 AT5013689 ACCESSION NR: were measured with am SF-4 spectrometer. The excitation specture, the stationary photoluminescence spectra, the photostimilated luminescence spectra, the thornooptical de-excitation, and the attmulation spectra were measured with a det-up consisting of two monochromators. From the investigation of the spectra and of the relaxation characteristics of the crystal phosphors, the muthom deduces the mechanism of recombination luminescence and the role played by processes of orthologalization and delocalization of the holes in the photo- and thermostimulated luminescence of the homological series of phosphoss EbCl-Ag, ECl-Ag, Els-Ag, Macl-Ag, and MaBr-Ag. It is shown that recombination luminoscence of the Ag fons helts in when the cleatrons recombine with localized holles, i.e., the luminescence is of the electronic recombination type. Recombination of holes with localized electrons produces a glow in the visible part of the spectrum. The nature of the activator dolon centers is briefly discussed. "The author thanks Ch. B. Dankellik for suggesting the topic and guidance." Orig. art. has: h figures, 2 formulas, and & tables. ASSOCIATION: none BUIS COLUES male SUPMITTED: 20Aug64 007 CHILIT MR REF SOV: Card 2/2

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065410003-0"

ZOLOTAREV, G.S.

Role of Professor Ivan Vasil'evich Popov in the development of Soviet engineering geology; his 75th birthday and 50 years of his academic, pedagogic, and public work. Vest. Mosk. un. Ser. 4: Geol 20 no.1:89-93 Jauf 165. (MIRA 18:3)

8/058/61/000/007/029/086 A001/A101

AUTHOR:

Zolotarev, G.K.

TITLE:

The effect of illumination by visual light during thermal treatment on the formation of capture centers at subsequent substractive coloring of KCl-Au crystal phosphor

PERIODICAL:

Referativnyy zhurnal. Fizika, no. 7, 1961, 154, abstract 7V416 ("Nauchn. zap. kafedr matem, fiz. i yestestvozn. Odessk. gos. ped. in-t", 1959, v. 24, no. 1, 68 - 72)

PEXT: Single crystals of KCl-Au grown by the Kiropulos method (0.05% mol) were subjected to high-temperature hardening in darkness and under conditions of action by light, were colored by X-rays at room temperature, and then were subjected to thermal luminescence. The thermal luminescence curves of crystals hardened in darkness have one maximum at 75-90°C and those hardened under action of light have two more maxima at temperatures 100-105 and 150-160°C; the relative intensity of these maxima depends on the hardening temperature and duration of illumination. There are 23 references. [Abstracter's note: Complete translation]

Card 1/1

M. Rlango

ACCESSION NR: AT4020803

8/2613/63/000/023/0175/0188

AUTHOR: Zolotarev, G. K.

TITLE: The mechanism of the luminescence of KC1-Ag

SOURCE: AN EstSSR. Institut kisiki i astronomii. Trudy\*, no. 23, 1963. Issledovaniya po lyuminestsentsii (Research in luminescence), 175-188

TOPIC TAGS: luminescence, recombination luminescence, phosphor, alkali halide luminescence, silver activated luminescence, electron trapping, luminescence center microstructure, thermoluminescence

ABSTRACT: Recently, in a study of the paramagnetic absorption of KC1-Ag crystals with E-centers, Delbecq, Smaler and Yuster (Phys. Flev., 111, 1235, 1958) gave a convincing experimental proof of the fact that it is the electrons trapped by Ag\* ions located in the regular cation nodes of the lattice that are responsible for E-absorption. In the present article, an attempt is made to establish the microstructure of the luminescence centers and to explain the recombination luminescence mechanism of the KC1-Ag phosphor. The crystals were grown by the Kiropoulos method; the actual silver concentration in the phosphore tested was on the order of 0.01-0.02 mol. 4. Before the tests, the samples were quick-hardened by cooling to room temperature after heating

### ACCESSION NR: AT4020803

in a quartz ampoule at 700C. Measurements were made of the optical absorption spectra and recombination luminescence spectra (spectra of optical flash stimulated in the E-band, and spectra of thermoluminescence) for RC1-Ag phosphor, excited with X-rays both at liquid oxygen and room temperatures. Relations between the E-centers and principal luminescence centers were studied. The author shows that the phosphorescence of silver ions results from the recombination of electrons with localized heles; that is, the recombination glow of Ag+ ions occurs in the event of electron recombination luminescence. In the case of the recombination of holes with localized electrons there is a green emission. The possible nature of this glow is discussed. "The author thanks Ch. B. Lushchik and I. V. Yaek for proposing the subject and supervising the work." Orig. art. has: 1 table, 5 figures and 6 formulas.

ASSOCIATION: Institut fiziki i astronomii AN EstSSR (Institute of Physics and Astronomy,

SUBMITTED: 23Jan63

DATE ACQ: 07Apr64

ENCL: 00

SUB CODE: PH

NO REF SOV: 020

OTHER: 004

ard 2/

Maximum classes of uniqueness of the Cauchy problem for partial differential equations. Uch.zap.Ivan.gos.ped.inst. 34334-45 164.

(MIRA 18:4)

Uniqueness of the solution of Cauchy's problem for the equation of heat conduction. Dokl. AN SSSR 104 no.3:349-351 \$ '55. (MURA 9:2)

1.Predetavlene akademikem S.L.Sobolsvym.

(Differential equations, Partial)

SUBJECT

USSR/MATHEMATICS/Differential equations

**CARD** 1/2 PG - 142

AUTHOR .

ZOLOTAREV G.N.

TITLE

On the question of uniqueness of the solution of the Cauchy

problem for the equation of heat conducting.

PERIODICAL

Doklady Akad. Nauk 104, 349-351 (1955)

reviewed 7/1956

Tichonov (Mat.Sbornik, n. Ser. 42, (1935) No.2) has shown that the solution of the Cauchy problem for the equation

(1) 
$$\frac{\partial u}{\partial t} = \frac{\partial^2 u}{\partial x^2} \qquad (u(x,0) = \varphi(x))$$

is not completely determined by the initial condition  $u(x,0) = \varphi(x)$ . The author seeks for necessary and sufficient comditions for the uniqueness of the solution. He interprets (1) in the sense of Gel'fand and Silov (Uspechi mat. Nauk 8, (1953) No.6) as an equation for a generalized function which depends on the parameter t and relative to x it belongs to a certain fixed space T(k<sub>F</sub>) (space T(k<sub>F</sub>) intriduced by Gurevič (Doklady Akad. Nauk 99. 893-895 (1954)). By application of the Fourier transformation to (1) one obtains the Cauchy problem in the space  $T(z^{\Phi})$  , which is equivalent with respect to the uniqueness of the solution (see Gurevic) for the ordinary differential

# "APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065410003-0

Doklady Akad. Nauk 104. 349-351 (1955)

CARD 2/2

PG - 142

equation

$$\frac{d\mathbf{V}(\mathbf{s},\mathbf{t})}{d\mathbf{t}} = -4\pi^2 s^2 \mathbf{V}(\mathbf{s},\mathbf{t})$$

with the initial condition

$$V(s,0) = \widehat{n_0(x)} = V_0(s).$$

The author proves that the Cauchy problem (2)-(3) possesses then and only then a unique solution in the space  $T(z, \Phi)$ , if the integral

$$\int_{\mathbf{r}^2}^{\infty} \frac{\phi(\sqrt[4]{r})}{r^2} dr$$

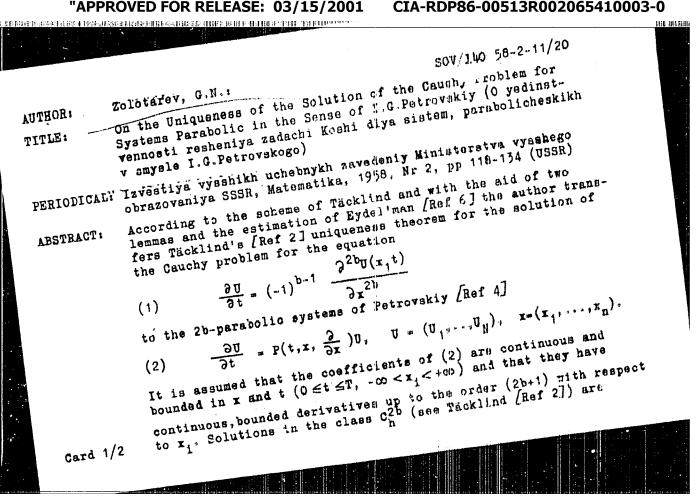
diverges. There  $\phi(r) = \int_{0}^{r} \varphi(t) dt$ 

# ZOLOTARBY, G.H.

Solution uniqueness of Cauchy's problem for systems which are parabolic in the sense of I.G. Petrovskii. Izv. vys. ucheb. zav.; mat. no.2:118-135 58. (MIRA 11:5)

1. Moskovskiy gosučarstvennyy universitet im. M.V. Lomonosova. (Differential equations, Partial)

ZCLOTAMEV, G.H., Cand Phys-Hath Sci — (diss) "on this problem of chases of seminated of the solution of Kochi problem for the system of differential equations in partial derivatives with constant coefficients." Let, 1958. Josep, 3 pp (Los State U in 1.V.Lomonosco. Rechanico-lath Faculty), 150 copies (KL,43-58, 114)



On the Uniqueness of the Solution of the Cauchy Problem SOV/140 58-2-11/20

considered. It is shown that  $c_h^{2b}$  is quasianalytic if the

integral  $\int \frac{dx}{h^{2b-1}(x)}$  appearing in the paper of Täcklind, diverges.

In the case of constant coefficients of (2) it is proved that this condition is necessary too. With the aid of the theory of Carlemann of quasianalytic classes of infinitely often differentiable functions the author gives a further proof that for constant coefficients the above condition is sufficient. There are 13 references, 11 of which are Soviet, and 2 Swedish.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosova SubMITTED: January 13, 1958

Card 2/2

16(1) AUTHOR:

Zolotarev. G.N.

SOV/155-58-2-8/47

TITLE:

On the Estimations From Above of the Classes of Uniqueness of the Solution of the Cauchy Problem for Systems of Partial Differential Equations (Ob otsenkakh sverkhu klassov yedinstvennosti reshendya zadachi Koshi dlya sistem differentsial'nykh uravneniy v

chastnykh proizvodnykh)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki. 1958, Nr 2, pp 37-40 (USSR)

ABSTRACT:

The pregent paper completes the investigations of Gel'fand and Shilov Ref 13 on the uniqueness of the solution of the Cauchy problem for the linear system  $\frac{\partial u}{\partial t} = P(\frac{\partial}{\partial x})u.$ 

Gel'fand and Shilov proved the uniqueness under the assumption

 $|u(x)| < Ae^{C|x|^{p_0}}$ - = 1. The author shows in the case of

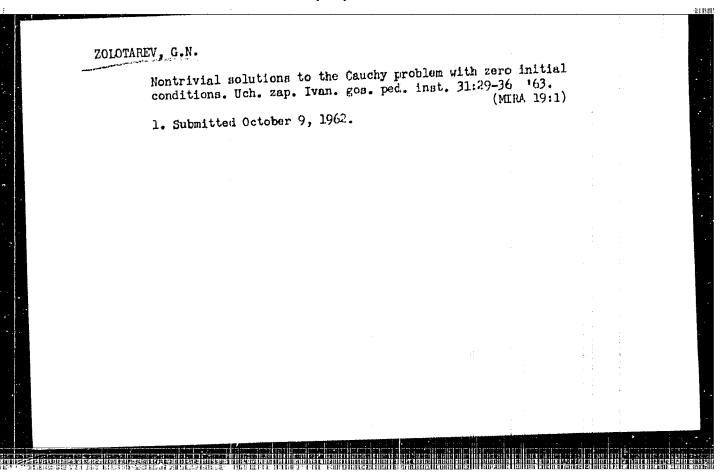
one independent variable that an essential weakening of this

assumption is not possible.

Card 1/2

There are 6 references, 5 of which are Soviet, and 1 Swedish.

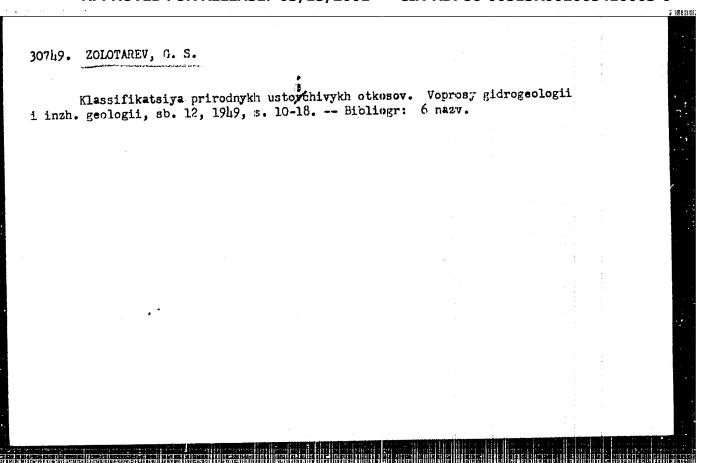
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ZOLOTAREV, G.	N•						
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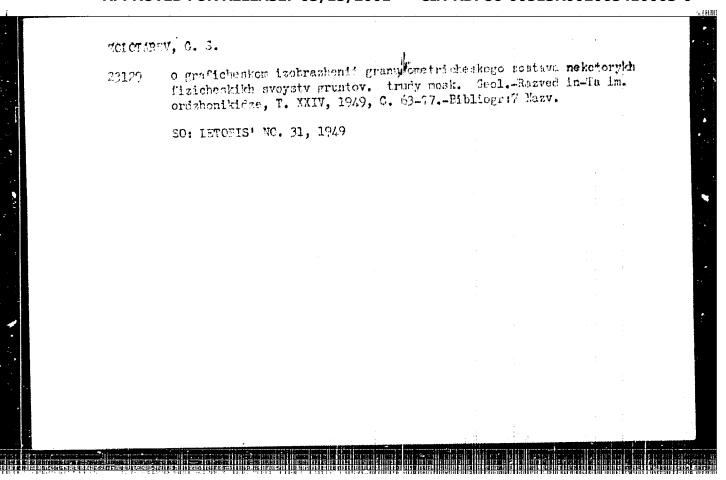


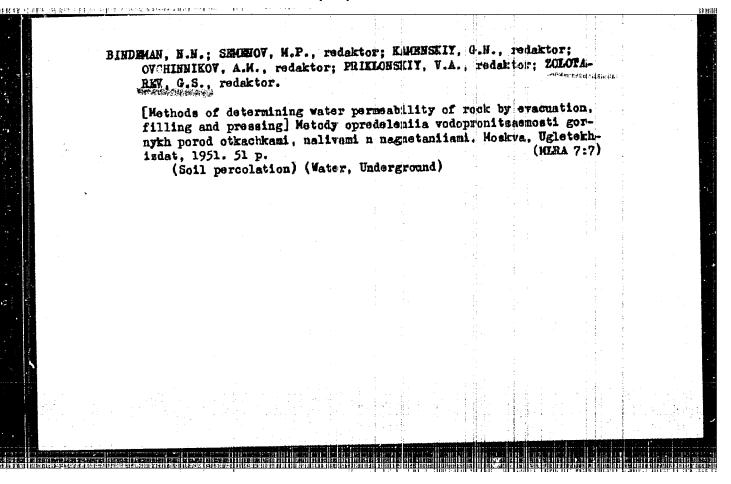
ZOLOTAREV, G. S. Cand. Geolog-Mineral Sci.

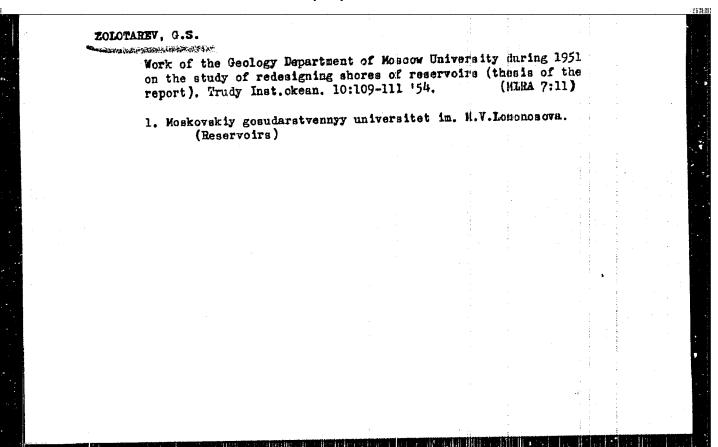
Dissertation: "Morphology and Stability Conditions of the Natural Slopes in Mesozoic and Cenogoic Rocks of the Middle-and Lower-Volga Areas." Hoscow Geological Prospecting Inst. imeni S. Ordzhonikidze. 4 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)









ZOLOTAREY. Georgiy Sergeyevich: CHAPOVSKIY, Ye., redaktor; HEZ YER, V.V. takhnicheskiy redaktor

[Manual of problems on engineering geology] Shornik zadach po inzhenernoi geologii. [Moskva] Izd-vo Mosk. univ. 1956. 178 p. (HIRA 10:4) (Engineering geology)

15-57-10-14703

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,

p 223 (USS R)

Zolotarev, G. S. AUTHOR:

An Experiment in Classifying Gravitational Movements of TITLE:

Rock on Slopes With the Objectives of Engineering

Geology (Opyt klassifikatsii gravitatsionnykh dvizheniy gornykh porod na sklonakh v inzhenerno-geologicheskikh

tselyakh)

PERIODICAL: Uch. zap. Mosk. un-ta, 1956, Nr 176, pp 135-173

The author proposes a new classification, dividing down-ABSTRACT:

slope movements of rocks into three large basic groups: "obval'nyye," "opolznevyye," and solifluctional. The classification is based on 1) origin of movement, 2) nature of movement, form, and structure of the dislocged mass, and 3) the principal factors that produced the

movement. 1. "Obval'nyye" phenomena are characterized by abrupt and sudden movements of blocky and fragmental

material and embraces four principal varieties: 1) Card 1/3

15-57-10-14703

An Experiment in Classifying Gravitational (Cont.)

"obvaly" (rock slides), 2) solitary breaking away of fragments (talus), 3) block and stone avalanches, commonly being the culmination of large slides, 4) "osovy"—displacement of detritus saturated by water. 2. "Opolznevyye" phenomena are downslope movements (sliding) of masses of rock as a consequence of disturbance of the equilibrium by various factors (according to F. P. Savarenskiy); they are divided according to age and phase of development into ancient a) exposed and b) buried and modern a) old and b) abeyant. Further subdivisions are based on the features 1) origin, 2) composition of the moving material and of the underlying rock, 3) thickness, size, and form of the moving mass, 4) activity, 5) character of the movement (pushed from above by other materal, or moving independently), 6) fundamental causes and factors giving rise to the movement. Seven types of "Opolznevyye" are examined: 1) rock and soil slide, 2) displacement of massive compact rocks, 3) slide en masse, 4) slide-flow, 5) slump, 6) surficial slide, 7) collapse. 3. Solifluctional phenomena are divided into 1) slow flow of surface layers, further divided into polar, humid, and alpine; 2) slow movement of rubble and blocky material in individual Card 2/3

्रके । एक व्यवसार में वा स्थाप कर्ता स्थाप स्थाप सम्बद्ध के साम वस स्वास व वसके कर पर आहरा \*An Experiment in Classifying Gravitational (Cont.) 15-57-10-14703 fragments, layers, talus, scattered debris, and rock streams; and 3) slow flow of clay masses. A table is given, showing recommended measures of protection against each form of downslope movement. V. S. Kovalevskiy

# ZOLOTAREV, G.S. Rate of weathering of Neecemian and Albian clays in the Velga Valley in the vicinity of Ulyanavsk. Rauch. dokl. vys. shkely; geel.-geeg. nauki no.3:166-172 '58. (MIRA 12:1) 1. Meskevskiy universitet, geelegicheskiy fakul'tet, kafedra gruntovedeniya i inzhenernoy geologii. (Velga Valley--Glay) (Weathering)

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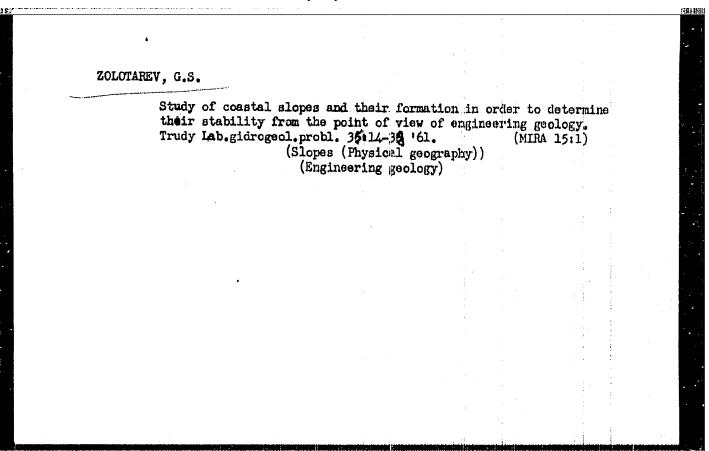
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[Engineering geology and soil science; articles devoted to the 25th anniversary of the Department of Engineering Geology and Soil Science] Voprosy inzhenernoi geologii i gruntovedeniia; sbornik statei, posviashchemnyi 25-letiiu kafedry gruntovedeniia i inzhenernoi geologii. Moskva, Mosk. univ., 1963. 363 p. (MIRA 16:5)

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BINDEMAN, N.H., red.; LYKOSHIN, A.J., red.; TITOV, N.A., red.;
GARHOHOV, I.V., retsenzent; PRIKLOWSKIY, V.A., retsenzent;
POPOV, I.V., retsenzent; RODIONOV, N.V., retsenzent; KHAKIMOV,
V.Z., red.; YERMAKOV, M.S., tekhn.red.

[Methods and results in the study of hydrogeological and engineering geological conditions of large reservoirs] Opyt i metodika izucheniia gidrogeologicheskikh i inzhenerno-geologicheskikh uslovii krupnykh vodokhranilishch. Pod red. G.S. Zolotareva, D.S. Sokolova i E.G. Chapovskogo. Moskva, Izd-vo Mosk. univ. Pt.1. 1959. 175 p. diegrs, maps. (MIRA 14:4)

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Some results of radar observations of meteors in Tomsk in 1957-1959. Izv. TPI 100:16-19 162. (MIRA 18:9)

L 2349-66 ENT(d) IJP(c) ACCESSION NR: APS021432 UR/0146/65/008/004/0d15/0d20 62-501.22 AUTHOR: Zolotarav, I. D. TITLE: Simplification of mathematical transformations when determining the transsient conditions at the output of a linear system SOURCE: IVUZ. Priborostroyeniye, v. 0, no. 4, 1965, 15-20 TOPIC TAGS: Laplace transform, circuit theory, linear syntem ABSTRACT: The author decomonstrates the possibility for simplifying the mathematical operations connected with calculating the inverse of the Lappace transformation for the case of an image function with simple pairs of conjugate poles. A specific example is given showing application of the proposed method to the case of exclusition of a parallel-connected tank circuit with a transfer function proportional to the quantity Card 1/2

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by the radio signal where $1(t)$ is the un	$f(t) = 1(t) \sin(t)$ nit function.	of+v). Orig. art. ha	s: 11 for	dulas.				
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